Appl. N . 09/739,929
Amendment dated Jun 1, 2004
Reply to Office Action of March 2, 2004

## IN THE CLAIMS

Please enter the following amendments to the claims.

- (currently amended) A method of forming a Cu alloy, comprising:
   plating a layer of Cu over a substrate <u>dielectric layer</u>;
   forming a dopant layer comprising Al er Co over the Cu layer,
   driving dopants from the dopant layer into the Cu layer; and
   removing the dopant layer.
- 2. (currently amended) The method of Claim 1, wherein the substrate dielectric layer comprises a copper diffusion barrier layer overlying a the dielectric layer.
- 3. (currently amended) The method of Claim 2, wherein the <u>copper</u> diffusion barrier layer comprises a material selected from the group consisting of Ta, TaN, TaSiN, W, WN, WSiN, Ti, TiN, TiSiN, and Co.
- 4. (original) The method of Claim 2, wherein forming the dopant layer comprises plating a layer of metal.
- 5. (cancelled)
- 6. (cancelled)
- 7. (previously presented) The method of Claim 1, wherein plating the layer of Cu comprises electroplating.

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- 8. (previously presented) The method of Claim 1, wherein plating the layer of Cu comprises an electroless deposition.
- 9. (previously presented) The method of Claim 1, wherein driving dopants into the Cu layer comprises elevating the temperature of the dopant layer and Cu layers to between 300°C and 400°C.

10 - 30 (cancelled)